



SWDCC 2026

International Conference on:

“Soil & Water Resources Management for Combating Desertification in Drylands under Climate Change”

May 16-19, 2026
Djerba Island, Tunisia

PROGRAM



SWDCC2026 CONFERENCE PROGRAM

DAY 1 – 16 MAY 2026

08:30–09:00 | REGISTRATION

OPENING CEREMONY

Théâtre Room

09:00–10:30 | **Welcome Addresses**

Moderator: **Mohamed Ouessar**, Conference Chair

10:30–11:00 | GROUP PHOTO + COFFEE BREAK

KEYNOTE 4: Environmental Monitoring and Assessment in Drylands (EMA)

Théâtre Room

11:00–11:30 | **KN-4: Keynote Speaker: Livia Peiser**

Keynote Title: “Transforming Agriculture for Sustainable Land and Water Resources Management in Drylands, the Role of Data and Innovation.”

SPECIAL SESSION 1

Théâtre Room

11:30–13:00 | **SS-1: The Food and Agriculture Organization (FAO) of the United Nations**

Session Title: “Tools and Processes for Improved Water and Soil Resources Management.”

Chair: Hamadi Habaieb | Co-chair: Sinan Bacha | Rapporteurs: Rahma Brini, Mouna Mechri

- **“Soil Suitability Mapping for Sustainable Soil Management: Lessons from an Integrated Land Use Planning Initiative in Tunisia”, Rafia Attia, MARHP Tunisia and Mouna Mechri, FAO, Tunisia.**
- **“A Standardized Framework for Field Data Collection and Quality Control to Support National Land Cover and Crop Type Mapping”, Filippo Sarvia, FAO, Italy.**
- **Groundwater Abstraction Monitoring Using Remote Sensing, Alaa Eddine Jlassi, MARHP, Tunisia**
- **“SEMED-Wapor: Use of Wapor Data to Analyze and Monitor Crop Yield, Water and Economic Productivity”, Paula Uyttendaele, CFI, FAO Italy, Steve Goss, CFI, FAO Italy, and Livia Peiser, FAO, Italy.**
- **“Informed Water Allocation: Water Accounting and Productivity in the Nebhana System Towards an Improved Water Allocation Regime”, Yosri Gafsaoui, MARHP, Tunisia and Rahma Brini, FAO, Tunisia.**

TECHNICAL SESSION

La Coupole Room

11:30–13:00 | **TS-OP-1: Water Resources Mobilization and Management (WRM)**

Chair: Mohamed Ghrab | Co-chair/Rapporteur: Latifa Dhaouadi

019. “Groundwater Flow Simulation of the Sbeitla Miocene Sandstone Aquifer (Central Tunisia) with Visual MODFLOW for Sustainable Management”,

Lamia Rachdi, Higher Institute of Water Sciences and Techniques of Gabès (ISSTEG), University of Gabes, Tunisia.

087. “Effects of Deficit Irrigation on Physiological Performance and Yield of Date Palm (*Phoenix dactylifera* L.) under Arid Conditions”,

Ilham Zaidali, University of Mohammed VI Polytechnic (UM6P), Morocco.

Sabri Ahmed, National Institute of Agricultural Research (INRA), Morocco.

Bassou Bouazzama, National Institute of Agricultural Research (INRA), Morocco.

El Janati Mustapha, Agronomic and Veterinary Institute Hassan II (IAV), Morocco.

Azim Khalid, National Institute of Agricultural Research (INRA), Morocco.

Oukarroum Abdallah, University of Mohammed VI Polytechnic (UM6P), Morocco.

089. “Evaluating Leaching Requirements and Irrigation Management Practices for Medjool Date Palm under Soil and Water Constraints in the Jordan Valley, Palestine”,

Imad Ghanma, General Directorate of Natural Protection (NP), Palestine.

Zohra Lili Chabaane, Institution of Agricultural Research and Higher Education (IRESA), Tunisia.

137. “Towards Improved Flow Regime Prediction in Data-Scarce Mediterranean Basins”,

Zayneb Mabrouk, National Agronomic Institute of Tunisia (INAT), University of Carthage, Tunisia.

Haykel Sellami, Centre de Recherches et des Technologies des Eaux (CERTE), Tunisia.

- Manel Mosbahi**, Higher School of Agriculture of Mograne (ESAM), University of Carthage, Tunisia.
Sihem Benabdallah, Centre de Recherches et des Technologies des Eaux (CERTe), Tunisia.
- 152.** “*Influence of Acacia Trees on Near-Surface Soil Water Balance in Arid Tunisia*”,
Maarten De Boever, Research Institute for Agriculture, Fisheries and Food (ILVO), Belgium.
Mohamed Ouessar, Institute for Arid Regions (IRA), University of Gabes, Tunisia.
Wim Cornelis, University of Gent, Belgium.
- 217.** “*Interpretable Machine Learning Enhances Drinking Water Quality Assessment: SVM–SHAP Modeling of the Northern Gabès Aquifer, Tunisia*”,
Amna Bourj, Applied Hydro-sciences Research Laboratory, University of Gabes, Tunisia.
Zied Haj-Amor, National Engineering School of Sfax (ENIS), University of Sfax, Tunisia.
Bachaer Ayed, National Engineering School of Sfax (ENIS), University of Sfax, Tunisia.
Ridha Khammar, National Engineering School of Sfax (ENIS), University of Sfax, Tunisia.
Zouhour Moussaoui, National Engineering School of Sfax (ENIS), University of Sfax, Tunisia.
Fatma Ben Brahim, National Engineering School of Sfax (ENIS), University of Sfax, Tunisia.
Adel Kharroubi, Applied Hydro-sciences Research Laboratory, University of Gabes, Tunisia.
Salem Bourj, National Engineering School of Sfax (ENIS), University of Sfax, Tunisia.

TECHNICAL SESSION

Joya Room

11:30–13:00 | TS-FT-2: Climate Change: Vulnerability and Adaptation in Drylands (CCD)

Chair: **Rachid Boukchina** | Co-chair/Rapporteur: **Mondher Fetoui**

- 014.** “*Climate Change Adaptation and Sustainable Pepper Production in Tunisian Drylands*”,
Sonia Barbouchi, National Institute of Agronomic Research of Tunisia (INRAT), University of Carthage Tunisia.
Riad Ilahy, National Institute of Agronomic Research of Tunisia (INRAT), University of Carthage Tunisia.
Rahma Zoghalmi, National Institute of Agronomic Research of Tunisia (INRAT), University of Carthage Tunisia.
Marwa Chouikhi, National Institute of Agronomic Research of Tunisia (INRAT), University of Carthage Tunisia.
Thouraya Rhim, National Institute of Agronomic Research of Tunisia (INRAT), University of Carthage Tunisia.
Imen Tlili, National Institute of Agronomic Research of Tunisia (INRAT), University of Carthage Tunisia.
Sayda Jaziri, National Institute of Agronomic Research of Tunisia (INRAT), University of Carthage Tunisia.
- 016.** “*The Resilience of Oasis Agricultural Systems Facing Natural Challenges in Continental Oases: Perceptions and Adaptive Practices of Farmers in Southwestern Tunisia*”,
Hala Belghith, Faculty of Arts and Humanities of Sfax (FLSHS), University of Sfax, Tunisia.
Naceur Mahdhi, Institute for Arid Regions (IRA), University of Gabes, Tunisia.
Najiba Chkir, Faculty of Arts and Humanities of Sfax (FLSHS), University of Sfax, Tunisia.
- 094.** “*Leaf Functional Traits in Coniferous and Sclerophyllous Species across Seasonal Precipitation Cycles in a Semi-Arid Environment*”,
Andreas Savvides, Energy, Environment & Water Research Center (EEWRC), The Cyprus Institute, Cyprus.
Niovi Christodoulou, Energy, Environment & Water Research Center (EEWRC), The Cyprus Institute, Cyprus.
Efstratios Boutsoukidis, Climate and Atmosphere Research Centre (CARE-C), The Cyprus Institute, Cyprus.
Hakan Djuma, Energy, Environment & Water Research Center (EEWRC), The Cyprus Institute, Cyprus.
Adriana Bruggeman, Energy, Environment & Water Research Center (EEWRC), The Cyprus Institute, Cyprus.
- 110.** “*A Knowledge Co-Production Process to Address Groundwater Governance Challenges in a Community-Managed Irrigation System in Southern Tunisia*”,
Intissar Ferchichi, National Research Institute of Rural Engineering, Water and Forests (INRGREF), University of Carthage, Tunisia.
Insaf Mekki, National Research Institute of Rural Engineering, Water and Forests (INRGREF), University of Carthage, Tunisia.
Nesrine Taoujouti, National Research Institute of Rural Engineering, Water and Forests (INRGREF), University of Carthage, Tunisia.
- 138.** “*Promoting Soil Health and Yield in Tunisian Rainfed Olive Systems via No-Tillage*”,
Olfa Boussadia, Olive Institute (IO), University of Sfax, Tunisia.
Hamda Aloui, Higher Agronomic Institute of Chott Meriem (ISA-CM), University of Sousse, Tunisia.
- 161.** “*Evaluating Heat Stress Effects on Milk Production in Local Tunisian Goats: Toward Resilient Breeding Strategies for Arid Environments*”,

- Ahlem Atoui**, Institute of Arid Regions (IRA), University of Gabes, Tunisia.
Maria-Jesús Carabaño, INIA-CSIC, Depto de Mejora Genética Animal, Spain.
Sghaier Najari, Institute of Arid Regions (IRA), University of Gabes, Tunisia.
- 162.** “Short-Duration Selenium Seed Priming Enhances Root Growth and Antioxidant-Related Bioactive Compounds in Poppy (*Papaver somniferum* L.) Sprouts under PEG-Induced Osmotic Stress”,
Ivana Varga, Faculty of Agrobiotechnical Sciences Osijek, University of Osijek, Croatia.
Manda Antunović, Faculty of Agrobiotechnical Sciences Osijek, University of Osijek, Croatia.
Mirta Rastija, Faculty of Agrobiotechnical Sciences Osijek, University of Osijek, Croatia.
Vladimir Zebec, Faculty of Agrobiotechnical Sciences Osijek, University of Osijek, Croatia.
- 164.** “Modeling the Impact of Heat Waves on Local Livestock Growth: An Adaptation Tool for Resilient Pastoral Systems in Tunisian Drylands”,
Aicha Laroussi, Arid Regions Institute (IRA), University of Gabes, Tunisia.
- 167.** “Weather Conditions and their Impact on Field Crops in Croatia”,
Dario Iljkić, Faculty of Agrobiotechnical Sciences Osijek (FASO), University of Osijek, Croatia.
Ivana Varga, Faculty of Agrobiotechnical Sciences Osijek (FASO), University of Osijek, Croatia.
Mirta Rastija, Faculty of Agrobiotechnical Sciences Osijek (FASO), University of Osijek, Croatia.
Vladimir Zebec, Faculty of Agrobiotechnical Sciences Osijek (FASO), University of Osijek, Croatia.
Manda Antunović, Faculty of Agrobiotechnical Sciences Osijek (FASO), University of Osijek, Croatia.
Antonela Markulj Kulundić, FASO, University of Osijek, Croatia.
- 171.** “Flood-Driven Recharge in an Arid Aquifer: Why Temporal Resolution Matters Case of the Gafsa North Aquifer (Southern Tunisia)”,
Fatma Karaouli, Faculty of Sciences of Gafsa (FSG), University of Gafsa, Tunisia.
Zaineb Ali, Arid Regions Institute (IRA), University of Gabes, Tunisia.
Nadia Khelif, Faculty of Sciences of Gafsa (FSG), University of Gafsa, Tunisia.
Mongi Ben Zaied, Arid Regions Institute (IRA), University of Gabes, Tunisia.
Mohammed Ouessar, Arid Regions Institute (IRA), University of Gabes, Tunisia.
- 189.** “Evaluation of the Impact of Compost Juice as a Liquid Organic Fertilizer on Improving Drought Tolerance of Some Almond Rootstocks”,
Hassouna Gouta, Olive Institute (IO), University of Sfax, Tunisia.
Meriem Mhedhbi, Higher institute for agronomy in Chott Meriem (ISA-CM), University of Sousse, Tunisia.
Hatem Zgallai, National Agronomic Institute of Tunisia (INAT), University of Carthage, Tunisia.
Wadhah Ghenimi, Higher institute for agronomy in Chott Meriem (ISA-CM), University of Sousse, Tunisia.
- 209.** “Agroforestry as a Climate Adaptation Solution in Semi-arid and Arid Tunisian Environment”,
Hechmi Belaid, Higher School of Engineers of Medjez El Bab (ESIM), University of Jendouba, Tunisia.
- 245.** “Sustainable Utilization of Geothermal Water for Agricultural Development in Arid Regions of Tunisia”,
Mokhtar ElBekkay, Arid Regions Institute (IRA), University of Gabes, Tunisia.
- 249.** “Technical Support and Development of a Monitoring and Evaluation System for the Sustainability of Agri-Food, Agricultural and Fisheries Production Systems”,
Emna Araïssia, Institution of Agricultural Research and Higher Education (IRESA), Tunisia.
Hanen Guesmi, Higher School of Agriculture of Mograne (ESAM), University of Carthage, Tunisia.
Fatma Trabelsi, Higher School of Engineers of Medjez El Bab (ESIM), University of Jendouba, Tunisia.
Zohra Lili Chabaane, Institution of Agricultural Research and Higher Education (IRESA), Tunisia.

13:00–15:00 | LUNCH

KEYNOTE 5: WEF Nexus (Water–Energy–Food–Ecosystem) in Arid Environments

Théâtre Room

15:00–15:30 | KN-5: Keynote Speaker: Rabi Mohtar

Keynote Title: “Integrating Soil Functions into the Water–Energy–Food–Ecosystem: Pathways for Resilient Dryland Systems.”

SPECIAL SESSION 2

Théâtre Room

15:30–17:00 | SS-2: The Arab Center for the Studies of Arid Zones and Dry Lands (ACSAD)

Session Title: **“ACSAD Experience in Water Resources Management and Combating Desertification.”**

Chair: **Mohamed Nasri** | Co-chair: **Hafedh Khlif**

- **“Climate Change and its Impact on Drought and Crop Productivity”, Ihab Jnad, ACSAD, Syria.**
- **“Water Requirements of Plants in Arid Regions”, Ahmed Al-Kubaisi, ACSAD, Syria.**
- **“Measures to Reduce Land Degradation”, Ahmed Al-Sayed, ACSAD, Syria.**
- **“Rainwater Harvesting Techniques for Combating Desertification”, Mahmoud Askar, ACSAD, Syria.**
- **Discussion.**

TECHNICAL SESSION

Joya Room

15:30–17:00 | TS-FT-3: Water Resources Mobilization and Management (WRM)

Chair: **Jamel Chahed** | Co-chair/Rapporteur: **Fatma Wassar**

149. “A Decision Support System for Managed Aquifer Recharge Through Non-Conventional Waters in the South of the Mediterranean”,

Rym Hadded, Arid Regions Institute (IRA), University of Gabes, Tunisia.

Mongi Ben Zaied, Arid Regions Institute (IRA), University of Gabes, Tunisia.

Fatma Elkmali, Higher School of Engineers of Medjez El Bab (ESIM), University of Jendouba, Tunisia.

Giulio Castelli, Università degli Studi di Firenze (UNIFI), Italy.

Fethi Abdelli, Arid Regions Institute (IRA), University of Gabes, Tunisia.

Zouhaier Khabir, Société Nationale d'Exploitation et de Distribution des Eaux (SONEDE), Medenine, Tunisia.

Khaled Ben Zaied, Commissariat Régional au Développement Agricole (CRDA), Tunisia.

Elena Bresci, Università degli Studi di Firenze (UNIFI), Italy.

Mohamed Ouessar, Arid Regions Institute (IRA), University of Gabes, Tunisia.

158. “A Remote Sensing–Based Framework for Discriminating Climate Variability from Anthropogenic Groundwater Depletion in a Semi-Arid Aquifer (Oglet Ahmed, NE Algeria)”,

Sami Hafnaoui, University of Tebessa, Algeria.

Layachi Gouaidia, University of Tebessa, Algeria.

Omar Guefaifia, University of Tebessa, Algeria.

Bilel Djoulah, University of Tebessa, Algeria.

Rayene Sirine Ramdani, University of Tebessa, Algeria.

Nour Gueraidia, University of Tebessa, Algeria.

Saida Gueraidia, University of Tebessa, Algeria.

129. “Comparative Assessment of Groundwater Intrinsic Vulnerability Using DRASTIC and God methods in the North Gabes Aquifer (Tunisia)”,

Imen Ayadi, Higher Institute of Water Sciences and Techniques of Gabès (ISSTEG), University of Gabes, Tunisia.

Mariem Othman, ISSTEG, University of Gabes, Tunisia.

070. “A Nature–Based Infiltration–Percolation System Using Sand and Granular Activated Carbon for Greywater Treatment and Reuse”,

Mahmoud Bali, Higher Institute of Water Sciences and Techniques of Gabès (ISSTEG), University of Gabes, Tunisia.

Mabrouka Alaya, Higher Institute of Water Sciences and Techniques of Gabès (ISSTEG), University of Gabes, Tunisia.

049. “Agricultural Drainage Water Reuse under Water Scarcity: Hydrochemical Constraints, Agronomic Risks, and Management Opportunities in Tunisian Oasis System”,

Latifa Dhaouadi, Centre Régional de Recherches en Agriculture Oasienne (CRRAO), Tunisia.

Fatma Naas, Higher Institute of Water Sciences and Techniques of Gabès (ISSTEG), University of Gabes, Tunisia.

Houda Besser, Arid Regions Institute (IRA), University of Gabes, Tunisia.

Mohamed Ouessar, Arid Regions Institute (IRA), University of Gabes, Tunisia.

233. “Digital Twins for Smart and Sustainable Ecosystems”,

Sourour Meddeb, Faculty of Sciences of Bizerte (FSB), University of Carthage, Tunisia/2-L2TI – Sorbonne Paris Nord, France.

Selma Batti, Faculty of Sciences of Bizerte (FSB), University of Carthage, Tunisia.

Khaled Bousetta, Galilée Institute, University of Sorbonne Paris North, France.

- Habib Fathallah**, Faculty of Sciences of Bizerte (FSB), University of Carthage, Tunisia.
185. *“Irrigation Management in Peach Orchard under Water Scarcity: Insights on Soil Salinity in Arid Land”*,
Ines Toumi, Arid Regions Institute (IRA), University of Gabes, Tunisia.
Mohamed Ghrab, Olive Institute (IO), University of Sfax, Tunisia.
Olfa Zarrouk, CERNAS Santarem, Portugal.
Kamel Nagaz, Arid Regions Institute (IRA), University of Gabes, Tunisia.
119. *“Hydrogeological Condition and Assessment of Groundwater Response to Artificial Recharge using Visual Modflow Modelling, Gafsa North Aquifer, Southwestern Tunisia”*,
Nadia Khelif, Faculty of Sciences of Gafsa (FSG), University of Gafsa, Tunisia.
Fatma Karaoui, Faculty of Sciences of Gafsa (FSG), University of Gafsa, Tunisia.
Mohamed Ouessar, Arid Regions Institute (IRA), University of Gabes, Tunisia.
248. *“Optimization of Flame Atomic Absorption Spectrometry to Study Matrix Interferences in Nafoora Field”*,
Sami Almabrouk, University of Benghazi, Libya.

17:00–17:15 | COFFEE BREAK

SPECIAL SESSION 3

Théâtre Room

17:15–18:45 | SS-3: **The Federation of Arab Scientific Research Councils (FASRC)**

Session Title: **“The Role of the Desertification Consortium in Advancing Research in Arab Region.”**

Chair: **Fathi Mansouri** | Co-chair: **Sghaier Najari** | Rapporteur: **Mohamed Ouessar**

- *“Smart Agricultural Management to Adapt to the Effects of Climate Change: Smart Application of Water and Fertilizers in Some Areas of Egypt (SAM-EGY)”*, **Ayman Farid Abu Hadid**, University of Ain Shams, Egypt.
- *“Smart Irrigation Systems in Agriculture: The Case of Arid Regions in Algeria”*, **Mohamed Seif Allah Kechebar**, The Scientific and Technical Research Center for Arid Regions (CRSTRA), Algeria.
- *“Sustainable Water Resource Management to Combat Desertification in Arid Environments”*, **Nihad Mohammed Abood**, University of Anbar, Iraq.
- *“The Impact of Climate Change on Arid and Semi-Arid Regions”*, **Hassan Saeed Zidan**, Libyan Center for Desert Research and Development of Desert Communities, Libya.
- Discussion.

TECHNICAL SESSION

Joya Room

17:15–18:45 | TS-FT-4: **WEFE Nexus (Water–Energy–Food–Ecosystem) in Arid Environments (WEFE)**

Chair: **Seraphine Grellier** | Co-chair/Rapporteur: **Achraf Katar**

085. *“The Drought Stress Tolerances of Bread Wheat Hybrids and Their Parents in the Speed Breeding System”*,
Mehmet Yıldırım, University of Dicle, Türkiye.
Ferhat Kızılgöçü, University of Mardin Artuklu, Türkiye.
Ferhat Öztürk, University of Sırnak, Türkiye.
Şengül Ünal, Agricultural Faculty, University of Dicle, Türkiye.
045. *“The TRANS-SAHARA Project: WEFE Nexus-Based Agroforestry for Sustainable Soil and Water Management in Drylands under Climate Change”*,
Mariem Khalfaoui, National Research Institute of Rural Engineering, Water and Forests (INRGREF), University of Carthage, Tunisia.
Faten Mezni, INRGREF, University of Carthage, Tunisia.
Ali Khorchani, INRGREF, University of Carthage, Tunisia
237. *“An Integrated Approach to Sustainable Land Management: Policy Insights from Olive Agroecosystems in Tunisia”*,
Hedi Mighri, Arid Regions Institute (IRA), University of Gabes, Tunisia.
Mondher Fetoui, Arid Regions Institute (IRA), University of Gabes, Tunisia.
Imed Sbissi, Arid Regions Institute (IRA), University of Gabes, Tunisia.
135. *“Green Extraction and Valorization of Oleuropein Rich Extract from Olive Leaves”*,
Ines Feki, Center of Biotechnology of Sfax (CBS), University of Sfax, Tunisia.
Asma Mahmoudi, Center of Biotechnology of Sfax (CBS), University of Sfax, Tunisia.
Fatma Hadrich, Center of Biotechnology of Sfax (CBS), University of Sfax, Tunisia.

- Mohamed Chamkha**, Center of Biotechnology of Sfax (CBS), University of Sfax, Tunisia.
Sami Sayadi, Center of Sustainable Development, College of Arts and Sciences, University of Qatar, Qatar.
059. “Crab Shell Waste in Sustainable Clay Bricks: A Circular Economy Approach via a Dual Pore-Forming and Reactive Sealing Mechanism for Enhanced Performance”,
Zina Sdiri, Faculty of Sciences of Tunis (FST), University of Tunis El Manar, Tunisia.
Ali Bennour, Arid Regions Institute (IRA), University of Gabes, Tunisia.
Paulo Santos, ISISE, ARISE, Department of Civil Engineering, University of Coimbra, Portugal.
Daniel Ferrández, Escuela Técnica Superior de Edificación, Universidad Politécnica de Madrid, Spain.
Nicoletta Fusi, Department of Earth and Environmental Sciences, University of Milano Bicocca, Italy.
Samira Arroum, Arid Regions Institute (IRA), University of Gabes, Tunisia.
Wissem Gallala, Higher Institute of Fine Arts of Sousse, University of Sousse, Tunisia.
096. “WEFE Nexus Indicators for SDG-aligned Transitions in Arid Regions (Matmata NEL)”,
Fethi Abdelli, Arid Regions Institute (IRA), University of Gabes, Tunisia.
Houda Besser, Arid Regions Institute (IRA), University of Gabes, Tunisia.
Ridha Belayadi, Commissariat Régional au Développement Agricole de Gabès (CRDA), Tunisia.
Salah M’hemdi, Commissariat Régional au Développement Agricole de Gabès (CRDA), Tunisia.
Mohamed Ouessar, Arid Regions Institute (IRA), University of Gabes, Tunisia.
150. “Gender Mainstreaming and Social Inclusion in the WEFE-Nexus Transition Scheme in Matmata (SE Tunisia)”,
Afef Mahjoubi, Arid Regions Institute (IRA), University of Gabes, Tunisia.
Fethi Abdelli, Arid Regions Institute (IRA), University of Gabes, Tunisia.
Houda Besser, Arid Regions Institute (IRA), University of Gabes, Tunisia.
Mohamed Ouessar, Arid Regions Institute (IRA), University of Gabes, Tunisia.
156. “Mitigating the Impact of Water Stress on Young Olive Trees Through the Use of Organic Amendments and Kaolin”,
Amel Mquidiche, Olive Institute (IO), University of Sousse, Tunisia.
241. “Comparative Sustainability Assessment of Traditional and Modern Oasis Systems in Southern Tunisia”,
Zouhair Rached, National Institute of Agronomic Research of Tunisia (INRAT), University of Carthage, Tunisia.
Sonia Mansouri Ben Ameur, National Institute of Agronomic Research of Tunisia (INRAT), University of Carthage, Tunisia.
246. “Contribution of Globally Important Agricultural Heritage Systems (GIAHS) to Land Conservation and Enhancement for Resilient and Sustainable Agroecosystems in Tunisia”,
Mohamed Ali Dridi, Ministry of Environment, Tunisia.
Abdelhakim Issaoui, Ministry of Environment, Tunisia.

DAY 2 – 17 MAY 2026

TECHNICAL SESSION

Théâtre Room

09:00–10:30 | TS-OP-5: Environmental Monitoring and Assessment (EMA)

Chair: **Dario Iljkic** | Co-chair/Rapporteur: **Rayda Chaker**

101. “Assessing Drought Vulnerability Patterns in Africa Using Integrated Assessment Frameworks during 1980-2100”,
Malak Henchiri, Higher Institute of Water Sciences and Techniques of Gabès (ISSTEG), University of Gabes, Tunisia.
Bouajila Essifi, Arid Regions Institute (IRA), University of Gabes, Tunisia.
Ahlem Gara, High School of Engineering of Medjez El Bab (ESIM), University of Jendouba, Tunisia.
Mohamed Ouessar, Arid Regions Institute (IRA), University of Gabes, Tunisia.
124. “Modeling Future Land Use/Land Cover Changes in the Rmel Catchment (Northeastern Tunisia), using the Land Change Modeler (LCM)”,
Safa Chniba, National Agronomic Institute of Tunisia (INAT), University of Carthage, Tunisia.
Mosbahi Manel, Higher School of Agriculture of Mograne (ESAM), University of Carthage, Tunisia.
Sihem Benabdallah, Center for Water Research and Technologies Technopark Borj-Cedria (CERTE), Tunisia.
210. “Monitoring Land Degradation in Tunisia: An AI-Geospatial based Approach Using Google Earth Engine for SDG 15.3.1 Reporting”,
Bouajila Essifi, Institut des Régions Arides (IRA), University of Gabes, Tunisia.
Gabriel del Barrio, Estación Experimental de Zonas Áridas (EEZA-CSIC), Spain.
Yolanda Canton Castilla, Department of Agronomy, University of Almeria, Spain.

Malak Henchiri, Higher Institute of Water Sciences and Techniques of Gabes (ISSTEG), University of Gabes, Tunisia.

Marieta Sanjuan Martine, Estación Experimental de Zonas Áridas (EEZA-CSIC), Spain.

Mohamed Ouessar, Institut des Regions Arides (IRA). University of Gabes, Tunisia.

214. “*Spatial Assessment of Groundwater Quality in the Oued Smar Aquifer (Medenine, Southeastern Tunisia) Using Hydrochemical Indices, GIS, and Fuzzy Logic*”;

Ibtissem Riahi, Higher Institute of Water Sciences and Techniques of Gabès (ISSTEG), University of Gabes, Tunisia.

Olfa Hall, Higher Institute of Water Sciences and Techniques of Gabès (ISSTEG), University of Gabes, Tunisia.

TECHNICAL SESSION

La Coupole Room

09:00–10:30 | TS-OP-6: Climate Change: Vulnerability and Adaptation in Drylands (CCD)

Chair: **Massimiliano Pasqui** | **Co-chair/Rapporteur:** **Abderrazak Tlili**

048. “*Satellite-Based Monitoring of Soil Salinity in Climate-Vulnerable Oasis Agro-ecosystems*”;

Latifa Dhaouadi, Centre Régional de Recherches en Agriculture Oasienne (CRRAO), Tunisia.

Houda Besser, Institut des Regions Arides (IRA). University of Gabes, Tunisia.

Salma Eltaiefd, Higher Institute of Water Sciences and Techniques of Gabes (ISSTEG), University of Gabes, Tunisia.

Bilel Abdelkarim, Higher Institute of Water Sciences and Techniques of Gabes (ISSTEG), University of Gabes, Tunisia.

Mohamed Ouessar, Institut des Regions Arides (IRA). University of Gabes, Tunisia.

079. “*Interannual Rainfall Variability in the Wadi Tataouine Basin (Southern Tunisia): Application of Innovative Trend Analysis*”;

Intissar Barhoumi, Faculty of Sciences (FSS), University of Sfax, Tunisia.

Habib Abida, Faculty of Sciences (FSS), University of Sfax, Tunisia.

165. “*Impact of Drought on Future Olive Water Demand Under CMIP6 Climate Projections in Semiarid Regions: Sousse, Tunisia*”;

Khouloud Gader, High School of Engineering of Medjez el Bab (ESIM), University of Jendouba, Tunisia.

Ahlem Gara, High School of Engineering of Medjez el Bab (ESIM), University of Jendouba, Tunisia.

Khawla Bejaoui, Regional Center of Research in Horticulture and Organic Agriculture (CRRHAB), University of Sousse, Tunisia.

Houcine Jeder, Regional Center of Research in Horticulture and Organic Agriculture (CRRHAB), University of Sousse, Tunisia.

Mohsen Mansour, Regional Center of Research in Horticulture and Organic Agriculture (CRRHAB), University of Sousse, Tunisia.

Imed Ben Aissa, Regional Center of Research in Horticulture and Organic Agriculture (CRRHAB), University of Sousse, Tunisia.

193. “*Evaluating the Role of Water Harvesting Techniques in Controlling Soil Erosion and Land Degradation in Arid Regions: The Jeffara Region, Southern Tunisia*”;

Mongi Ben Zaied, Institut des Regions Arides (IRA). University of Gabes, Tunisia.

215. “*Resilience of Nuts Industry to Climate Change in Warm Environment: Insights from Recent Low-Chill Experiences in Arid and Semiarid Areas*”;

Mohamed Ghrab, Olive Institute (IO), University of Sfax, Tunisia.

Olfa Elloumi, Olive Institute (IO), University of Sfax, Tunisia.

Haifa Benmoussa, National Agronomic Institute of Tunisia (INAT), University of Carthage, Tunisia.

Mehdi Ben Mimoun, National Agronomic Institute of Tunisia (INAT), University of Carthage, Tunisia.

227. “*Determination of Macro Mineral Contents of Some Drought-Tolerant Sanguisorba Minor Genotypes*”;

Mehmet Başbağ, Faculty of Agriculture, University of Dicle, Türkiye.

Ali Tamer, Institute of Science, University of Dicle, Türkiye.

TECHNICAL SESSION

Joya Room

09:00–10:30 | TS-OP-7: Water Resources Mobilization and Management (WRM)

Chair: **Ibrahim Askri** | **Co-chair/Rapporteur:** **Saifeddine Eturki**

081. “*Enhancing SWAT Hydrological Modeling in Semi-Arid Tunisia Through Multi-Source Precipitation Products*”;

Hadil Tayachi, National Agronomic Institute of Tunisia (INAT), University of Carthage, Tunisia.

Khaoula Khemiri, National Agronomic Institute of Tunisia (INAT), University of Carthage, Tunisia.

Franck Baton, ADDACTIS France, Paris, France

- Christian Massari**, National Research Council, Research Institute for Geo-Hydrological Protection (CNR-IRPI), Perugia, Italy
Giulio Castelli, University of Florence, Florence, Italy.
Elena Bresci, University of Florence, Florence, Italy.
Anis Chekirbane, National Agronomic Institute of Tunisia (INAT), University of Carthage, Tunisia.
- 115.** “Towards Rigorous Dataset Quality Standards of Two Different Soil Moisture Sensors Under Irrigated Citrus Orchard in Cap Bon Peninsula, Tunisia”,
Akram Benhammedi, National Research Institute of Rural Engineering, Water and Forests (INRGREF), University of Carthage, Tunisia.
Rim Zitouna-Chebbi, National Research Institute of Rural Engineering, Water and Forests (INRGREF), University of Carthage, Tunisia.
Imen Mahjoub, CTA
Abdelaziz Zairi, National Research Institute of Rural Engineering, Water and Forests (INRGREF), University of Carthage, Tunisia.
Insaf Mekki, National Research Institute of Rural Engineering, Water and Forests (INRGREF), University of Carthage, Tunisia.
- 126.** “Contribution of Electrical Resistivity Prospecting to the Assessment of Groundwater Potential in the Southern Gafsa Basin (Belkhir-El Guettar), Southwestern Tunisia”,
Faten Houatmia, Higher Institute of Water Sciences and Techniques of Gabes (ISSTEG), University of Gabes, Tunisia.
Mohamed Atawa, Higher Institute of Technological Studies of Medenine, University of Gabes, Tunisia.
Mohamed Gsmi, Faculty Science of Bizerte, University of Carthage, Tunisia.
- 148.** “Enhancing Groundwater Resources Through Managed Aquifer Recharge: A SWAT Application in Arid Southeastern Tunisia”,
Rym Hadded, Institut des Regions Arides (IRA). University of Gabes, Tunisia.
Mongi Ben Zaied, Institut des Regions Arides (IRA). University of Gabes, Tunisia.
Giulio Castelli, Università degli Studi di Firenze (UNIFI), Italy.
Fethi Abdelli, Institut des Regions Arides (IRA). University of Gabes, Tunisia.
Bouajila Essifi, Institut des Regions Arides (IRA). University of Gabes, Tunisia.
Elena Bresci, Università degli Studi di Firenze (UNIFI), Italy
Mohamed Ouassar, Institut des Regions Arides (IRA). University of Gabes, Tunisia.
- 163.** “Climate Change Impacts on Reservoir Storage in Semiarid Mediterranean Catchments, Tunisia: A CMIP5–CMIP6 Comparative Assessment”,
Ahlem Gara, High School of Engineering of Medjez el Bab (ESIM), University of Jendouba, Tunisia.
Khouloud Gader, High School of Engineering of Medjez el Bab (ESIM), University of Jendouba, Tunisia.
Malak Henchiri, Institut des Regions Arides (IRA), University of Gabes, Tunisia.
Slaheddine Khelifi, High School of Engineering of Medjez el Bab (ESIM), University of Jendouba, Tunisia.
Marnik Vanclooster, Elie-UCL Louvain-La-Neuve.
Christophe Bouvier, HSM Montpellier
- 201.** “Delineation of Groundwater Recharge Potential Zones Using Geospatial Techniques and Multicriteria Decision Analysis: Case of the Tataouine Basin, Southern Tunisia”,
Rouaida Trabelsi, GEOMODELE Laboratory, Faculty of Sciences of Sfax (FSS), University of Sfax, Tunisia.
Oumayama Amri, GEOMODELE Laboratory, Faculty of Sciences of Sfax (FSS), University of Sfax, Tunisia.
Habib Abida, GEOMODELE Laboratory, Faculty of Sciences of Sfax (FSS), University of Sfax, Tunisia.

10:30–11:00 | COFFEE BREAK

KEYNOTE 2: Water Resources Mobilization and Management (WRM)

Théâtre Room

11:00–11:30 | KN-3: Keynote Speaker: Andres Jaramillo

Keynote Title: “Value for Drop: Soil, Water, and the Human Equation in Drylands.”

SPECIAL SESSION 4

11:30–13:00 | SS-4: The Food and Agriculture Organization (FAO) of the United Nations and the International Center for Agricultural Research in the Dry Areas (ICARDA)

Session Title: **“Adaptive Governance and Dry Land Ecosystem Under Climate Change.”**

Chair: **Mohamed Amrani** | Co-chair: **Chamseddine Harrabi & Chokri Zairi** | Rapporteur: **Rahma Brini & Mouna Mechri**

- *Support for Transforming Development Models in Oasis and Desert Areas in North African Countries*, **Ahmed Bougacha, FAO, Tunisia.**
- *“The National Adaptation Plan for Food Security and Agriculture in Tunisia”*, **Chamseddine Harrabi, MARHP, Tunisia**
- *“Gender Sensitive Governance of Water and Land Resources”*, **Hela Hassine Rezgui, MARHP, Tunisia.**
- *“FAO Regional Drought Strategy and Perspective for Drought Resilience in Maghreb Region”*, **Sihem Ben Hadj Ameer and Abdourahman Maki, FAO, Tunisia.**
- *“Climate-smart Innovations for Improving Water Productivity in Dryland Agrifood Systems”*, **Vinay Nangia, ICARDA, Morocco.**
- *“Integrating Nature-Based Solutions and Technological Innovations for Resilient Dryland Rangeland Ecosystems”*, **Azaiez O. Belgacem and Aymen Frija, ICARDA, Tunisia.**
- *Discussion.*

TECHNICAL SESSION

11:30–13:00 | TS-OP-8: Water Resources Mobilization and Management (WRM)

Chair: **Andres Jaramillo** | Co-chair/Rapporteur: **Fethi Abdelli**

051. *“Prioritization of Artificial Recharge Sites Using Geostatistical Analysis, PHREEQC Modeling, and Economic Assessment: A Case Study of the Gafsa South-El Guettar Aquifer Southern Tunisia”*,

Fatma Karaouli, Faculty of Sciences of Gafsa (FSG), University of Gafsa, Tunisia.

Mongi Ben Zaied, Institut des Regions Arides (IRA), University of Gabes, Tunisia.

Zaineb Ali, Institut des Regions Arides (IRA), University of Gabes, Tunisia.

Nadia Khlif, National Engineering School, University of Sfax, Faculty of Sciences of Gafsa (FSG), University of Gafsa, Tunisia.

Mohamed Ouessar, Institut des Regions Arides (IRA), University of Gabes, Tunisia.

086. *“Improving Water Productivity of Melon in Southern Tunisia through Model-Based Irrigation Scheduling: A Comparison with Farmer Practices”*,

Fatma Wassar, Higher Institute of Water Sciences and Techniques of Gabès (ISSTEG), University of Gabes, Tunisia.

Youba El Béchir Cheikh Mohamed Abdellahi, Higher Institute of Water Sciences and Techniques of Gabès (ISSTEG), University of Gabes, Tunisia.

Ines Toumi, Institut des Regions Arides (IRA), University of Gabes, Tunisia.

Neji Mahmoudi, Higher Institute of Water Sciences and Techniques of Gabès (ISSTEG) / Faculty of Sciences of Gabes, University of Gabes, Tunisia.

Imen Ayadi, Higher Institute of Water Sciences and Techniques of Gabès (ISSTEG) / Faculty of Sciences of Sfax, University of Sfax, Tunisia.

105. *“The Impact of Climate Change and Drought on Wheat Production: Optimum Irrigation Water Level Determination Using Pareto Optimization Model”*,

Öner Çetin, University of Dicle, Türkiye.

111. *“The Effect of Subsurface Drip Irrigation at Different Lateral Depths on Tomato (*Solanum Lycopersicum*) and Pepper (*Capsicum Annuum*) Irrigation”*,

Erhan Akalp, Faculty of Agriculture, University of Dicle, Türkiye.

Vedat Piriñç, Faculty of Agriculture, University of Dicle, Türkiye.

Recep Taha Akinci, Faculty of Agriculture, University of Dicle, Türkiye.

Öner Çetin, Faculty of Agriculture, University of Dicle, Türkiye.

207. *“From Obligation to Opportunity: Enabling Treated Wastewater Reuse in Palestine under Hydro-Political Constraints”*,

Adel Yasin, Higher Institute of Water Sciences and Techniques of Gabès (ISSTEG), University of Gabes, Tunisia.

Béçir Bejaou, National Institute of Marine Sciences and Technologies (INSTM), University of Carthage, Tunisia.

Rachid Boukchina, Higher Institute of Water Sciences and Techniques of Gabès (ISSTEG), University of Gabes, Tunisia.

211. *“Distribution efficiency of the center pivot irrigation systems in southwester Libya”*,
Ali Shaki, University of Wadi Al-Shatti, Libya.
Mohamed Ajarmawey, University of Sabha, Libya.

TECHNICAL SESSION

Joya Room

11:30–13:00 | TS-FT-9: Environmental Monitoring and Assessment (EMA)

Chair: Nina Bisom | Co-chair/Rapporteur: Malak Henchiri

061. *“Mapping Land Cover Changes in Kebili, Southern Tunisia: An Assessment of Desertification Sensitivity Using Remote Sensing Imagery”*,
Horra Gdiri, Higher Institute of Water Sciences and Techniques of Gabès (ISSTEG), University of Gabes, Tunisia.
Bouajila Essifi, Institut des Regions Arides (IRA), University of Gabes, Tunisia.
Malak Henchiri, Higher Institute of Water Sciences and Techniques of Gabès (ISSTEG), University of Gabes, Tunisia.
074. *“Machine Learning Based Multi-Sensor Land Cover Change Detection in West Africa Using NOAA-AVHRR and MODIS Remote Sensing Data”*,
Aya Zidane, Higher Institute of Water Sciences and Techniques of Gabès (ISSTEG), University of Gabes, Tunisia.
Malak Henchiri, Higher Institute of Water Sciences and Techniques of Gabès (ISSTEG), University of Gabes, Tunisia.
108. *“Vulnerability Assessment of Vegetation Cover and Agricultural Land in Djerba Island using a Geospatial Approach”*,
Ichrak Wederni, Higher School of Agriculture of Mograne (ESAM), University of Carthage, Tunisia; University of Sousse, Tunisia.
Bouajila Essifi, Institut des Regions Arides (IRA), University of Gabes, Tunisia.
Manel Mosbahi, Higher School of Agriculture of Mograne (ESAM), University of Carthage, Tunisia.
130. *“Spatial Analysis of Oasis Extensions and Differentiated Zoning Strategies for Groundwater Preservation in Kebili, Tunisia”*,
Nesrine Taouajouti, National Research Institute of Rural Engineering, Water and Forests (INRGREF), University of Carthage, Tunisia.
155. *“Multi-scale Detection of Variation in the Biophysical Properties of Olive Cultivation”*,
Amel Mguidiche, Olive Institute (IO), University of Sousse, Tunisia.
179. *“Assessment of Soil Erosion Using GIS and USLE Modeling to Support Sustainable Land Management in Southern Tunisia”*,
Achraf Katar, Institut des Regions Arides (IRA) University of Gabes / National Agronomic Institute of Tunisia (INAT), University of Carthage, Tunisia.
Bouajila Essifi, Institute of Arid Regions (IRA), University of Gabes, Tunisia.
221. *“Spatiotemporal Assessment of Natural and Planted Vachellia tortilis Populations Using Multi-Temporal Satellite Data in Bouhedma National Park, Tunisia”*,
Khaoula Ben Atia Zrouga, Higher Institute of Applied Biology of Medenine (ISBAM), University of Gabes, Tunisia.
Refka Mnasri, CITERES, University of Tours, France.
Bouajila Essifi, Institute of Arid Regions (IRA), University of Gabes, Tunisia.
Christophe Mahuzier, Research Institute for Development (IRD), France.
Kamel Dadi, Institute of Arid Regions (IRA), University of Gabes, Tunisia.
Mohamed Tarhouni, Institute of Arid Regions (IRA), University of Gabes, Tunisia.
Pascal Podwojewski, Research Institute for Development (IRD), France.
Séraphine Grellier, University of Toulouse INP, France
Mustapha Gorai, Higher Institute of Applied Biology of Medenine (ISBAM), University of Gabes, Tunisia.
224. *“Multi-Decadal Dynamics of Woody Vegetation and Degradation Trajectories in Sidi Toui National Park (Southern Tunisia)”*,
Refka Mnasri, CITERES, University of Tours, France.
Khaoula Ben Attia Zrouga, Higher Institute of Applied Biology of Medenine (ISBAM), University of Gabes, Tunisia
Bouajila Essifi, Institute of Arid Regions (IRA), University of Gabes, Tunisia.
Christophe Mahuzier, Research Institute for Development (IRD), France.
Kamel Dadi, Institute of Arid Regions (IRA), University of Gabes, Tunisia.
Pascal Podwojewski, Research Institute for Development (IRD), France.
Francis Isselin, CITERES, University of Tours, France.
Mohamed Tarhouni, Institute of Arid Regions (IRA), University of Gabes, Tunisia.
Séraphine Grellier, University of Toulouse INP, CRBE, France.
Mustapha Gorai, National Research & Development Center for Sustainable Agriculture, Saudi Arabia.

244. “Assessment of Rangeland Degradation on the Mnagueb Plateau (Tataouine, Tunisia) Using in Situ Characterization and Remote Sensing Techniques”,

Hanen Guesmi, SPADD/Higher School of Agriculture of Mograne (ESAM), University of Carthage, Tunis Institution of Agricultural Research and Higher Education (IRESA), Tunisia.

Amel Gammoudi, Centre National de la Cartographie et de la Télédétection (CNCT), Tunisia.

Nadhem Brahim, Faculty of Sciences of Tunis (FST), University of Tunis El Manar, Tunisia.

Rafla Attia, Direction Générale de l'Aménagement et de la Conservations des Terres Agricoles (DGACTA), Tunisia.

Ahmed Tebini, Centre National de la Cartographie et de la Télédétection (CNCT), Tunisia.

Ihsen Ben Aissa, Faculty of Sciences of Tunis (FST), University of Tunis El Manar, Tunisia.

Hosni Trabelsi, Centre National de la Cartographie et de la Télédétection (CNCT), Tunisia.

13:00–15:00 | LUNCH

KEYNOTE 1: Climate Change: Vulnerability and Adaptation in Drylands (CDC)

Théâtre Room

15:00–15:30 | KN-1: **Keynote Speaker: Massimiliano Pasqui**

Keynote Title: **“Beyond Averages: Unravelling Climate Variability and Change Signals in Dryland Environments.”**

TECHNICAL SESSION

Théâtre Room

15:30–17:00 | **TS-OP-10: Climate Change: Vulnerability and Adaptation in Drylands (CCD)**

Chair: **Adriana Bruggemann** | Co-chair/Rapporteur: **Mongi Ben Zaied**

015. “Effects of Humic Substances as Natural Biostimulants on Plant Growth and Stress Resistance under Drought and Saline Conditions”,

Sonia Barbouchi, National Institute of Agronomic Research of Tunisia (INRAT), University of Carthage, Tunisia.

Riad Ilahy, National Institute of Agronomic Research of Tunisia (INRAT), University of Carthage, Tunisia.

Rahma Zoghlami, National Institute of Agronomic Research of Tunisia (INRAT), University of Carthage, Tunisia.

Marwa Chouikhi, National Institute of Agronomic Research of Tunisia (INRAT), University of Carthage, Tunisia.

Thouraya Rhim, National Institute of Agronomic Research of Tunisia (INRAT), University of Carthage, Tunisia.

Imen Tlili, National Institute of Agronomic Research of Tunisia (INRAT), University of Carthage, Tunisia.

Sayda Jaziri, National Institute of Agronomic Research of Tunisia (INRAT), University of Carthage, Tunisia.

043. “Human-Water Feedbacks Under Pressure: A Socio-Hydrological Assessment of Ecological Flows in a Mediterranean Watershed”,

Khaoula Khemiri, National Agronomic Institute of Tunisia (INAT), University of Carthage, Tunis, Tunisia.

Iolanda Borzi, University of Messina, Messina, Italy

Christian Massari, National Research Council, Research Institute for Geo-Hydrological Protection (CNR-IRPI), Perugia, Italy

Ronny Berndtsson, Lund University, Sweden.

Imen Rais, Worldwide Fund for Nature (WWF) North Africa, Tunisia.

Zakher Bouragaoui, Worldwide Fund for Nature (WWF) North Africa, Tunisia.

Imen Ben Osman, Worldwide Fund for Nature (WWF) North Africa, Tunisia.

Wael Ben Aba, Worldwide Fund for Nature (WWF) North Africa, Tunisia.

Anis Chekirbane, National Agronomic Institute of Tunisia (INAT), University of Carthage, Tunis, Tunisia.

077. “Assessment of Drought Indicators in Saudi Arabia”,

Mansour Alhawas, National Center for Vegetation Cover Development and Combating Desertification (NCVC), Saudi Arabia.

Saleh Aldhifallah, National Center for Vegetation Cover Development and Combating Desertification (NCVC), Saudi Arabia.

198. “Enhanced Drought Tolerance of Olive Trees (*Olea europaea* L.) Grown in Semi-Arid Conditions by Using Kaolin Sprays and Polyter Facing Climate Change”,

Imen Zouari, Olive Institute (IO), University of Sfax, Tunisia.

Amel Mguidiche, Olive Institute (IO), University of Sfax, Tunisia.

Mouna Mezghani Aïachi, Olive Institute (IO), University of Sfax, Tunisia.

226. “Determination of Agricultural Properties of Some Flax (*Linum usitatissimum* L.) Varieties Applied with Organic and Chemical Fertilizers under Semi-Arid Climatic Conditions”,

Sema Başbağ, University of Dicle, Türkiye.

Şilan Çiçek Bayram, Directorate of Provincial Agriculture and Forestry, Türkiye.

Nazlı Aybar Yalinkiliç, Faculty of Applied Sciences, University of Mus Alparslan, Türkiye.

247. “*First Assessment of Decadal Drought Prediction Skill in Southern Tunisia Using Multi-Model Ensembles and Observational Evaluation*”,

Ismail Bouizrou, Institute of Ecology and Landscape, University of Applied Sciences Weihenstephan-Triesdorf, Freising (HSWT), Germany.

Mounir Atoui, Higher Institute of Water Sciences and Techniques (ISSTEG), University of Gabes, Tunisia.

Brahim Askri, National Engineering School of Gabès, University of Gabes, Tunisia.

Rym Hadded, Institut des Regions Arides (IRA), University of Gabes, Tunisia.

Mohamed Ouessar, Institut des Regions Arides (IRA), University of Gabes, Tunisia.

Mustapha Gorai, Institut Supérieur de Biologie Appliquée de Médenine (ISBAM), University of Gabes, Tunisia.

Carsten Lorz, University of Applied Sciences Weihenstephan-Triesdorf, Freising (HSWT), Germany.

Kristian Forster, Institute of Ecology and Landscape, University of Applied Sciences Weihenstephan-Triesdorf, Freising (HSWT), Germany.

TECHNICAL SESSION

Théâtre Room

17:15–18:45 | TS-OP-11: Environmental Monitoring and Assessment (EMA)

Chair: **Habib Abida** | **Co-chair/Rapporteur:** **Rym Haddad**

017. “*Inversion Modeling for Characterizing Subsurface Salinity in the Arid Region of Kairouan, Tunisia*”,

Dorsaf Allagui, National Research Institute of Rural Engineering, Water and Forests (INRGREF), University of Carthage, Tunisia.

Mohamed Hachicha, National Research Institute of Rural Engineering, Water and Forests (INRGREF), University of Carthage, Tunisia.

Julien Guillemoteau, Institute of Geosciences, University of Potsdam, Germany.

134. “*High-Resolution Assessment of Land Productivity in Cyprus Using Sentinel-2 Time Series*”,

Egli Michailidou, The Cyprus Institute (CI), Cyprus.

Christina Makri, The Cyprus Institute (CI), Cyprus.

Andreas Savvides, The Cyprus Institute (CI), Cyprus.

Christos Zoumides, The Cyprus Institute (CI), Cyprus.

Adriana Bruggeman, The Cyprus Institute (CI), Cyprus.

040. “*AI-Based Olive Grove Detection and Production Prediction: A Comprehensive Remote Sensing and Machine Learning Approach*”,

Tasnime Sghaier, Arid Regions Institute (IRA), University of Gabes, Tunisia.

Mohamed Ouessar, Arid Regions Institute (IRA), University of Gabes, Tunisia.

118. “*Multi-Sensor Satellite Time Series for Assessing Land Use/Land Cover Change and Vegetation Productivity Dynamics in the Gafsa Basin*”,

Hadhami Mchich, Higher Institute of Water Sciences and Techniques of Gabes (ISSTEG), University of Gabes, Tunisia.

Bouajila Essifi, Arid Regions Institute (IRA), University of Gabes, Tunisia.

Mohamed Ouessar, Arid Regions Institute (IRA), University of Gabes, Tunisia.

216. “*Land Cover Change and Drought-resilient Vegetation Expansion in Semi-arid Tunisia: A Remote Sensing and Machine Learning Analysis*”,

Fathia Jarray, National Research Institute of Rural Engineering, Water and Forests (INRGREF), University of Carthage, Tunisia.

Mohamed Lassaad Kotti, National Research Institute of Rural Engineering, Water and Forests (INRGREF), University of Carthage, Tunisia.

Adel Slatni, National Research Institute of Rural Engineering, Water and Forests (INRGREF), University of Carthage, Tunisia.

Samir Yacoubi, National Research Institute of Rural Engineering, Water and Forests (INRGREF), University of Carthage, Tunisia.

Mohamed Ali Ben Abdallah, National Research Institute of Rural Engineering, Water and Forests (INRGREF), University of Carthage, Tunisia.

Marta Cosma, National Research Council of Italy (CNR).

Cristina Da Lio, National Research Council of Italy (CNR).
Sandra Donnici, National Research Council of Italy (CNR).
Luigi Tosi, National Research Council of Italy (CNR).
Vassilis Aschonitis, ELGO-DIMITRA, Greece.
Taoufik Hermassi, National Research Institute of Rural Engineering, Water and Forests (INRGREF), University of Carthage, Tunisia.

TECHNICAL SESSION

Joya Room

15:30–17:00 | TS-FT-12: Soil Degradation and Conservation (SDC)

Chair: Mohamed Tarhouni | Co-chair/Rapporteur: Houda Besser

- 080.** “Valorization of Natural Clays in Ceramic Tile Production Using Glass Waste as a Fluxing Agent”,
Ali Bennour, Institut des Regions Arides (IRA) University of Gabes, Tunisia.
Zina Sdiri, Faculty of Sciences of Gabes (FSG), University of Gabes, Tunisia.
Wissem Gallala, University of Sousse, Tunisia.
- 146.** “Enhancing Wheat Productivity and Soil Fertility through No-Tillage and Legume-Based Rotations in Semi-arid Dryland Agroecosystems”,
Hatem Zgallai, National Institute of Agronomic Research of Tunisia (INRAT), University of Carthage, Tunisia.
Boussadia Olfa, Olive Institute (IO), University of Sousse, Tunisia.
Aloui Hamda, Ministère de l'Environnement, Tunisia.
Rezgui Mohsen, National Institute of Agronomic Research of Tunisia (INRAT), University of Carthage, Tunisia.
Annabi Mohamed, National Institute of Agronomic Research of Tunisia (INRAT), University of Carthage, Tunisia.
- 190.** “Physical and chemical characterization of biochar and compost derived from almond tree by-products”,
Waddah Ghenimi, Higher Agronomic Institute of Chott-Mariem (ISA-CM), University of Sousse, Tunisia.
René Guénon, Institut Agro, Physical Environment of Horticultural Plants Unit (EPHor), Angers, France.
Emmanuel Geoffriau, Institut Agro, INRAE, IRHS, SFR QUASAV, Univ Angers, Angers, France.
Nathalie Carcaud, Institut Agro, ESO CNRS-UMR, Angers, France.
Hichem Rejeb, Higher Agronomic Institute of Chott-Mariem (ISA-CM), University of Sousse, Tunisia.
Hassouna Gouta, Olive Institute (IO), University of Sousse, Tunisia.
- 191.** “Bio-Based Substrates for Dryland Reforestation: Potential of Almond By-Products under Climate Change”,
Meriem Mhedhbi, Higher Agronomic Institute of Chott-Mariem (ISA-CM), University of Sousse, Tunisia.
Hassouna Gouta, Olive Institute (IO), University of Sousse, Tunisia.
Wadhah Ghenimi, Higher Agronomic Institute of Chott-Mariem (ISA-CM), University of Sousse, Tunisia.
Ibtissem Laaribi, Olive Institute (IO), University of Sousse, Tunisia.
- 213.** “Effect of Biochar on Carbon Storage and Microbial Activity in Sandy Soils of Southern Tunisia”,
Habib Lamourou, Arid Regions Institute (IRA), University of Gabes, Tunisia.
Ali Bennour, Arid Regions Institute (IRA), University of Gabes, Tunisia.
Fatma Mekki, Arid Regions Institute (IRA), University of Gabes, Tunisia.
Mohamed Ouessar, Arid Regions Institute (IRA), University of Gabes, Tunisia.
- 218.** “Effect of Enclosure Management on Soil Properties and Carbon Mineralization in Arid Sandy Soil in Southern Tunisian Rangeland”,
Roukaya Chibani, Arid Regions Institute (IRA), University of Gabes, Tunisia.
Haithem Bahri, Institut National de Recherche Agronomique (INAT), University of Carthage, Tunisia.
Mohamed Annabi, Institut National de Recherche Agronomique (INAT), University of Carthage, Tunisia.
Mohamed Moussa, Arid Regions Institute (IRA), University of Gabes, Tunisia.
Farah Ben Salem, Arid Regions Institute (IRA), University of Gabes, Tunisia.
Mohamed Naffeti, Arid Regions Institute (IRA), University of Gabes, Tunisia.
Mohamed Ouessar, Arid Regions Institute (IRA), University of Gabes, Tunisia.
- 229.** “Compost Amendment and Treated Wastewater Irrigation Influence Nutrient Transporter Gene Expression, Mineral Nutrition, and Heavy Metal Accumulation in Barley (*Hordeum vulgare* L.) under Semi-Arid Conditions”,
Rim Jouini, Faculty of Sciences of Tunis, University of Tunis El Manar / Centre of Biotechnology of Borj-Cedria (CBBC), Tunisia.
Souhir Abdelkrim, Centre of Biotechnology of Borj-Cedria (CBBC), Tunisia.
Ghassen Abid, Centre of Biotechnology of Borj-Cedria (CBBC), Tunisia.

Rim Nefissi Ouertani, Centre of Biotechnology of Borj-Cedria (CBBC), Tunisia.

234. “*Optimizing Potassium Fertilization to Enhance Barley Tolerance to Salinity in Arid Regions: Agronomic, Physiological, and Molecular Insights*”,

Maïssam Benammar, Institut National Agronomique de Tunisie (INAT), University of Carthage, Tunisia.

Sawsen Ayadi, Institut National Agronomique de Tunisie (INAT), University of Carthage, Tunisia.

Salma Jallouli, Institut National Agronomique de Tunisie (INAT), University of Carthage, Tunisia.

Youssef Trifa, Institut National Agronomique de Tunisie (INAT), University of Carthage, Tunisia.

242. “*Trade-Offs Between Vegetation Recovery and Soil Fertility Under Semi-Arid Rangeland Rehabilitation: Insights from Oueslatia, Central Tunisia*”,

Abderrazak Tlili, Institut National de la Recherche Agronomique de Tunisie (INRAT), University of Carthage, Tunisia.

Hichem Ben Salem, Institut National de la Recherche Agronomique de Tunisie (INRAT), University of Carthage, Tunisia.

Azaiez Ouled Belgacem, International Center for Agricultural Research in the Dry Areas (ICARDA), Tunisia

243. “*Effect of Low-Cost Fertilizer Amendments on the Yield and Quality Traits of Tomato and Pepper Genotypes*”,

Rahma Inès Zoghlami, National Institute of Agronomic Research (INRAT), University of Carthage, Tunisia.

Sayda Jaziri, National Institute of Agronomic Research (INRAT), University of Carthage, Tunisia.

17:00–17:15 | COFFEE BREAK

TECHNICAL SESSION

La Coupole Room

17:15–18:45 | TS-OP-13: Soil Degradation and Conservation (SDC)

Chair: **Tao Wang** | Co-chair/Rapporteur: **Mohamed Moussa**

082. “*Impact of Date-Palm Based Biochar and Compost as Soil Amendments for Improving Soil Quality in Arid Regions*”,

Houda Oueriemmi, Arid Regions Institute (IRA), University of Gabes, Tunisia.

Rahma Inès Zoghlami, Institut National de Recherche Agronomique de Tunis (INRAT), University of Carthage, Tunisia.

Fatma Mekki, Arid Regions Institute (IRA), University of Gabes, Tunisia.

Ali Bennour, Arid Regions Institute (IRA), University of Gabes, Tunisia.

Mohamed Moussa, Arid Regions Institute (IRA), University of Gabes, Tunisia.

Mohamed Ouessar, Arid Regions Institute (IRA), University of Gabes, Tunisia.

093. “*Combined Effects of Phosphogypsum and Compost on the Chemical and Biological Properties of Salt-Affected Soils*”,

Rayda Chaker, Arid Regions Institute (IRA), University of Gabes, Tunisia.

Saïfeddine Eturki, Arid Regions Institute (IRA), University of Gabes, Tunisia.

Hadda Ben Mbarek, Regional Center of Agricultural Research of Sidi Bouzid, Tunisia.

Kamel Gargouri, Olive Institute (IO), University of Sfax, Tunisia

Mohamed Ouessar, Arid Regions Institute (IRA), University of Gabes, Tunisia.

133. “*Enhancing Agricultural Sustainability in Arid Oases: Combined Use of Biochar and Mineral Fertilizers Improves Soil Fertility and Barley Yield*”,

Fatma Mekki, Higher Institute of Water Sciences and Techniques of Gabes (ISSTEG), University of Gabes, Tunisia.

145. “*Drainage System Functionality, Clogging Mechanisms and Soil Salinisation in Oasis Agroecosystems of Southern Tunisia: Insights for Sustainable Soil Conservation*”,

Aljia Ben Smida, Higher Institute of Water Sciences and Techniques of Gabes (ISSTEG), University of Gabes, Tunisia.

173. “*Restoring Soil Function in Arid Rangelands of Southern Tunisia through Integrated Water Harvesting and Direct Seeding*”,

Ines Romdhane, Faculty of Sciences of Gabes (FSG), University of Gabes, Tunisia.

Mongi Ben Zaïed, Institut des Regions Arides (IRA), University of Gabes, Tunisia.

Abderrazak Tlili, National Institute of Agricultural Research of Tunisia (INRAT), Tunisia.

Mohamed Ouessar, Institut des Regions Arides (IRA), University of Gabes, Tunisia.

Azaiez Ouled Belgacem, International Center for Agricultural Research in the Dry Areas (ICARDA), Tunisia

188. “*Evaluation of Soil Erosion and the Impact of SWC Structures in the Merguellil Watershed using SWAT Model*”,

Ines Gharnouki, National Agronomic Institute of Tunisia (INAT), Carthage University, Tunisia.

Jalel Aouissi, National Agronomic Institute of Tunisia (INAT), Carthage University, Tunisia.

Manel Mosbahi, Higher School of Agriculture of Mograne (ESAM), University of Carthage, Tunisia.

Sihem Benabdallah, Center for Water Research and Technologies (CERTE), Tunisia.

TRAINING WORKSHOP

Joya Room

17:15–18:45 | Instructor: **Filippo Sarvia (FAO)**

Workshop Title: **“A Standardized Framework for Field Data Collection and Quality Control to Support National Land Cover and Crop Type Mapping.”**

DAY 3 – 18 MAY 2026

KEYNOTE 3: Soil Degradation and Conservation (SDC)

Théâtre Room

09:00–09:30 | KN-3: **Keynote Speaker: Tao Wang**

Keynote Title: **“The Impact and Regulation of Climate Change and Human Activities on Desertification Process - Take the Situation in China as an Example.”**

TECHNICAL SESSION

Théâtre Room

09:30–11:00 | TS-OP-14: **Water Resources Mobilization and Management (WRM)**

Chair: **Öner Çetin** | Co-chair/Rapporteur: **Fatma Karaouli**

057. “Structural Environmental Inequalities in Water Supply, Wastewater, and Solid Waste Management in the Southern West Bank (2014–2024): A GIS-Based Environmental Justice Assessment”,

Nidal Nassar, National Agronomic Institute of Tunisia (INAT), University of Carthage, Tunisia.

Zohra Lili Chabaane, National Agronomic Institute of Tunisia (INAT), University of Carthage, Tunisia.

Hamzeh Al Zabadi, Faculty of Medicine and Health Sciences, University of An-Najah National, Palestine.

088. “Reuse of Agricultural Drainage Water for Cotton Production Under Semi-Arid Conditions: Implications for Yield Formation and Fiber Quality”,

Neşe Yaman, University of Dicle, Türkiye.

Necati Kayaalp, University of Dicle, Türkiye.

Ertuğrul Gül, University of Dicle, Türkiye.

Ali Em, University of Dicle, Türkiye.

Gökmen Öztürkmen, University of Dicle, Türkiye.

090. “The Effect of Long-Term Irrigation by Wastewater on Physico-Chemical and Microbiological Properties of Soil Under Arid Conditions: Case Study of Bechima, Gabes”,

Saifeddine Eturki, Arid Regions Institute (IRA), University of Gabes, Tunisia.

Yassine Hidri, Olive Tree Institute (IO), Sfax Tunisia

Faiza Souid, Arid Regions Institute (IRA), University of Gabes, Tunisia.

Rim Werhani, National Bone Marrow Transplant Center. Tunisia

Feryel Hajjaji, Higher Institute of Water Sciences and Techniques of Gabès (ISSTEG), University of Gabes, Tunisia.

Mohamed Ouessar, Arid Regions Institute (IRA), University of Gabes, Tunisia.

100. “Sustainable Valorization of *Musa paradisiaca* Residues into High-Surface-Area Activated Biochar: Engineering a Green Adsorbent for Pharmaceutical Micropollutant Remediation”,

Nozha Bouaicha Abid, Center of Biotechnology of Sfax (CBS), University of Sfax, Tunisia.

Zaineb Zayani, Faculty of Sciences of Sfax, University of Sfax, Tunisia.

Mohamed Ali Masmoudi, Center of Biotechnology of Sfax (CBS), University of Sfax, Tunisia.

Mohamed Chamkha, Center of Biotechnology of Sfax (CBS), University of Sfax, Tunisia.

127. “Valorizing Treated Wastewater for Irrigated Agriculture in Tunisia: From Strategy to Impact”,

Hana Gharbi, Direction Générale du Génie Rural et de l'Exploitation des Eaux (DGGREE), Tunisia.

Nina Bisom, Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ), Tunisia.

Nesrine Kalbousi, Centre de Recherches et des Technologies des Eaux CERTE, Tunisia.

199. “Monitoring Treated Waste Water Irrigation and Nutrient Management in Olive Orchards in Cyprus”,

Andreas Savvides, The Cyprus Institute (CI), Cyprus.

Niovi Christodoulou, The Cyprus Institute (CI), Cyprus.

Ioannis Sofokleous, The Cyprus Institute (CI), Cyprus.

Hakan Djuma, The Cyprus Institute (CI), Cyprus.
Christos Zoumides, The Cyprus Institute (CI), Cyprus.
Adriana Bruggeman, The Cyprus Institute (CI), Cyprus.

TECHNICAL SESSION

La Coupole Room

09:30–11:00 | TS-OP-15: CLIMATE CHANGE: VULNERABILITY AND ADAPTATION IN DRYLANDS

Chair: [Livia Peiser](#) | **Co-chair/Rapporteur:** [Bouajila Essifi](#)

026. “Hydrological Sensitivity to Rainfall Extremes in Arid Regions Under Increasing Climate Variability: Case of the Sidi Aich Sub-Basin, Southwestern Tunisia”,

Zaineb Ali, Institut des Regions Arides, University of Gabes, Tunisia.

Mohamed Ouessar, Institut des Regions Arides, University of Gabes, Tunisia.

Fatma Karouli, National Agronomic Institute of Tunis (INAT), University of Carthage, Tunisia

064. “Mitigating Flood Risk Through Hydrological Modeling and Infrastructure Design: A Case Study of Beni Zelten Watershed, Southeastern Tunisia”,

Fethi Abdelli, Institut des Regions Arides (IRA), University of Gabes, Tunisia.

078. “Characterising Different Types of Smallholder Farmers and Their Use of Climate-Smart Agricultural Practices: Implications for Climate Resilient Development”,

Abba Ngurno, University of York, United Kingdom.

Lindsay Stringer, University of York, United Kingdom.

Eleanor Jew, University of York, United Kingdom.

195. “Traditional Community-based Runoff Water Management in North African Berberian Mountain Settlements: The Case of Toujane in Southeastern Tunisia”,

Fairouz Megdiche, Higher institute for agronomy in Chott Meriem (ISA CM), University of Sousse, UNESCO Chair Ede on Water, Waste and Energy (LAMSIN- ENIT, University of Tunis El-Manar), Tunisia.

200. “Challenges and Opportunities for Improving Olive Orchard Management Practices in Cyprus”,

Niovi Christodoulou, The Cyprus Institute, Cyprus.

Natalia Anastasopoulou, The Cyprus Institute, Cyprus.

Adriana Bruggeman, The Cyprus Institute, Cyprus.

220. “Hydrologic and Hydraulic Simulations of flash floods: Case of the Tataouine Watershed”,

Abdelfattah Atoui, Higher Institute of Water Sciences and Techniques of Gabes (ISSTEG), University of Gabes, Tunisia.

Habib Abida, Faculty of Sciences of Sfax, University of Sfax, Tunisia.

TECHNICAL SESSION

Joya Room

09:30–11:00 | TS-OP-16: WEF Nexus (Water–Energy–Food–Ecosystem) in Arid Environments

Chair: [Azaiez Ouled Belgacem](#) | **Co-chair/Rapporteur:** [Ali Bennour](#)

031. “The Qatari Crop Performance Index: A Tool for Selecting High-Efficiency Agriculture”,

Sa'd Shannak, University of Hamd Ben Khalifa (HBKU), Qatar.

Abdellah Kafi, University of Hamd Ben Khalifa (HBKU), Qatar.

058. “Valorization of Palm Waste as a Reactive Additive in Sustainable Fired Clay Bricks: A Multi-scale Mechanistic and Statistical Investigation”,

Zina Sdiri, Faculty of Sciences of Tunis (FST), University of El Manar, Tunisia.

Ali Bennour, Institute of Arid Regions (IRA), University of Gabes, Tunisia.

Paulo Santos, Department of Civil Engineering, University of Coimbra, Portugal.

Daniel Ferrández, Escuela Técnica Superior de Edificación, Universidad Politécnica de Madrid, Spain.

Nicoletta Fusi, Department of Earth and Environmental Sciences, University of Milano Bicocca, Italy.

Wissem Gallala, Higher Institute of Fine Arts of Sousse, University of Sousse, Tunisia.

060. “Translating Nexus Thinking into Action: Operationalizing the WEF Nexus Approach in the Matmata Nexus Ecosystem Laboratory, Tunisia”,

Houda Besser, Institut des Regions Arides (IRA), University of Gabes, Tunisia.

Fethi Abdelli, Institut des Regions Arides (IRA), University of Gabes, Tunisia.

Mongi Ben Zaied, Institut des Regions Arides (IRA), University of Gabes, Tunisia.

Ridha Belayadi, Commissariat Régional de Développement Agricole (CRDA) of Gabes, Tunisia.

Xenia Theodotou Schneider, Xpro Consulting Limited.

Fernando Nardi, University of Rome Tor Vergata, Italy.

Mohamed Ouessar, Institut des Regions Arides (IRA), University of Gabes, Tunisia.

063. “Hydrological Constraints and Adaptation Pathways in Drylands: Lessons from Long-Term Integrated Water Balance Analyses in Tunisia”,

Jamel Chahed, National Engineering School of Tunis (ENIT), University of Tunis Manar, Tunisia.

Mustapha Besbes, National Engineering School of Tunis (ENIT), University of Tunis Manar, Tunisia.

122. “The Water-Energy Nexus from Concept to Practice: Policy Integration Challenges in Solar-Powered Irrigation Systems in Southern Tunisia”,

Intissar Ferchichi, National Research Institute of Rural Engineering, Water and Forests (INRGREF), University of Carthage, Tunisia.

Insaf Mekki, National Research Institute of Rural Engineering, Water and Forests (INRGREF), University of Carthage, Tunisia.

Nesrine Taouajouti, National Research Institute of Rural Engineering, Water and Forests (INRGREF), University of Carthage, Tunisia.

Ichrak El Guedri, National Research Institute of Rural Engineering, Water and Forests (INRGREF), University of Carthage, Tunisia.

Nicolas Faysse, UMR G-EAU, Centre de Coopération Internationale en Recherche Agronomique pour le Développement (CIRAD), Tunisia.

229. “Oxidative Stress Responses and Osmotic Adjustment of Barley (*Hordeum vulgare* L.) under Treated Wastewater Irrigation Combined with Compost and Biochar Amendments in Semi-Arid Conditions”,

Rim Jouini, Faculty of Sciences of Tunis (FST), University of El Manar, Tunisia.

Rim Nefissi Ouertani, Centre of Biotechnology of Borj-Cedria (CBBC), Tunisia.

Ghassen Abid, Centre of Biotechnology of Borj-Cedria (CBBC), Tunisia.

Fatma Souissi, Centre of Biotechnology of Borj-Cedria (CBBC), Tunisia.

11:00–11:30 | COFFEE BREAK

CLOSING CEREMONY

[Théâtre Room](#)


11:30–13:00 | Closing Ceremony

Moderator: **Mohamed Ouessar**, Conference Chair

13:00–15:00 | LUNCH & DEPARTURE

SWDCC
2026



HOUR / DAY	MAY 15 TH	MAY 16 TH	MAY 17 TH			MAY 18 TH	MAY 19 TH				
08:30-09:00	 <p>SWDCC 2026</p> <p>GENERAL PROGRAM</p>	REGISTRATION						<p>FIELD TOUR</p> <ul style="list-style-type: none"> - 06:30 – 15:00 - IRA HQ Tour - Visit of traditional water harvesting systems, troglodytes, ancestral Ksours, etc. in Tataouine - Lunch in Chenini 			
09:00-09:30		<p>OPENING CEREMONY</p>			TS-5: EMA OP Room 1 (Théâtre)	TS-6: CCD OP Room 2 (La Coupole)	TS-7: WRM OP Room 3 (Joya)		KEYNOTE SDC KN-3		
09:30-10:30					TS-14: WRM OP Room 1 (Théâtre)	TS-15: CCD OP Room 2 (La Coupole)	TS-16: WEFE OP Room 3 (Joya)				
10:30-11:00		GROUP PHOTO/COFFEE BREAK			COFFEE BREAK						
11:00-11:30		KEYNOTE EMA KN-4			KEYNOTE WRM KN-2				COFFEE BREAK		
11:30-13:00		SS-1: FAO Room 1 (Théâtre)	TS-1: WRM OP Room 2 (La Coupole)	TS-2: CCD FT Room 3 (Joya)	SS-4: FAO/ ICARDA Room 1 (Théâtre)	TS-8: WRM OP Room 2 (La Coupole)	TS-9: EMA FT Room 3 (Joya)		<p>CLOSING CEREMONY</p>		
13:00-15:00		LUNCH BREAK			LUNCH BREAK						
15:00-15:30		KEYNOTE WEFE KN-5			KEYNOTE CCD KN-1						
15:30-17:00		<p>ARRIVAL CHECK-IN & REGISTRATION</p>	SS-2: ACSAD Room 1 (Théâtre)	TS-3: WRM FT Room 3 (Joya)	TS-10: CCD OP Room 1 (Théâtre)	TS-11: EMA OP Room 2 (La Coupole)	TS-12: SDC FT Room 3 (Joya)		<p>CHECK-OUT & DEPARTURE</p>		
17:00-17:15			COFFEE BREAK			COFFEE BREAK					
17:15-18:45	SS-3: FASRC Room 1 (Théâtre)		TS-4: WEFE FT Room 3 (Joya)	TS-13: SDC OP Room 1 (Théâtre)	<p>TRAINING WORKSHOP (Joya)</p>						

SESSIONS & PRESENTATIONS: **SS:** Special Session; **TS:** Technical Session; **KN:** Keynote; **OP:** Oral Presentation; **FT:** Flash Talk

TOPICS: **1-CCD:** Climate Change: Vulnerability and Adaptation in Drylands; **2-WRM:** Water Resources Mobilization and Management; **3-SDC:** Soil Degradation and Conservation; **4-EMA:** Environmental Monitoring and Assessment in Drylands; **5-WEFE:** WEFE Nexus (Water–Energy–Food–Ecosystem) in Arid Environments





International Conference on:
**“Soil & Water Resources Management
 for Combating Desertification in Drylands under Climate Change”**

May 16-19, 2026
 Djerba Island, Tunisia

**SWDCC
 2026**

